

N-SHAPED BACKFLOW PREVENTOR

ABSTRACT OF THE DISCLOSURE

5 A backflow preventor with increased performance, and
increased ease of installation is provided. The check valves
are configured to assist in redirecting flow along the desired
pathway, when they are in the open position. The pathway is
designed so that the number of changes of flow direction of the
average streamline flow is reduced, preferably being about
10 180°. The check valves are configured to reduce or eliminate
divergent flow around the edges of the valve disks. A check
valve with a reduced hold-open pressure includes a biasing
device, such as a spring, directly connected to a pivoting
clapper at one end and to the valve body at the other end. No
15 intervening pivoting links are used between the spring and the
clapper. Preferably, the clapper is connected only by being
pivoted to the valve body and by the spring connecting it to
the valve body.

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